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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE CONFIRMATION NO.

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EXAMINER RAHMJOO, MANUCHER

ART UNIT PAPER NUMBER

2676

DATE MAILED: 09/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application	n No.	Applicant(s)
10/040,05	6	SILVERSTEIN, AMNON
Office Action Summary Examiner		Art Unit
Mike Rahi		2676
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1)⊠ Responsive to communication(s) filed on <u>31 December 2001</u> .		
2a) This action is FINAL . 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-23</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C.		
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 		ry (PTO-413) Paper No(s) Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 5, 6, 7, 8, 13, 14, 15, 18, 19, 20, 21, 22, and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claims 4,5,6, and 7 contents of element (b1) in said claims are in contradiction with those of the prior claims of which said claims depend on.

As per claim 8 it is not clear what (d) prior to (b) is and how it may be defining an order with respect to different elements of the claim.

As per claim 21 line 15 recites "...region o said input...". The spelling should be corrected.

Further clarification on said claims and additional claims is respectfully requested.

Claims 1 recites the limitation "...based on the intensity..." in line 7. There is insufficient antecedent basis for this limitation in the claim.

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Claim 2 recites the limitation "...said output..." in lines 17- 18. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "...on the intensity..." in line 15. There is insufficient antecedent basis for this limitation in the claim.

Claim 21 recites the limitation ""...said input image ..." in line 15. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Szeliski et al US Patent 6,009,190, hereinafter, Szeliski.

As per claims 1,10 and 16 Szeliski teaches accessing said image, said image sampled at a higher spatial resolution than the spatial resolution of said display see for example figures 2- 7 column 13 lines 27- 31; and mapping an area of a display to a region of said image, said area operable to display a first color of a plurality of colors see for example column 28 lines 39- 44; and based on the intensity of said first color in said region of said image, calculating an intensity value (color or intensity) for said first

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lines 1-8.

color to be displayed in said area of said display, wherein said region comprises an intensity value for each of saidplurality of colors see for example column 29 lines 54-67; and repeating a) - b) for additional areas of said display corresponding to additional regions of said image, mapping each area to its own region, wherein said image is processed see for example column 29 lines 1- 3 and 54-62 and figure 31(through repeating the steps for each triangle); and rendering said image on said display, based on said calculated intensities see for example column 27 lines 62-67 and column 28

As per claim 2 Szeliski teaches d) displaying said processed image on said display, said display providing for control over individual sub-pixels, wherein each area of said output corresponds to a sub-pixel operable to display a color see for example column 9 lines 21- 35.

As per claim 3 Szeliski teaches bl) averaging the intensity value of said first color over a plurality of regions neighboring said region of said image, wherein each of said areas maps to its own plurality of regions see for example column 30 lines 20- 21.

As per claims 4 and 7 Szeliski teaches bl) based on the intensity of said first color in said plurality of regions ofsaid image, calculating an intensity value for said first color see for example column 29 lines 54- 67;

b2) calculating an error for said first color see for example column 11 lines 44- 56; and b3) propagating said error for said first color for processing further regions of said image see for example column 32 lines 40- 42.

As per claim 5 Szeliski teaches bl) an error that was propagated when processing

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another area for said first color see for example column 12 lines 48-50.

As per claim 6 Szeliski teaches bl) based on the intensity of said first color in said region of said image, calculating an uncompensated intensity value for said first color(computation of intensity through triangles with id tags) see for example column 29 lines 57-67 and figure 31;

b2) calculating an error for each of the rest of said plurality of colors within said region see for example column 11 lines 44- 56,

b3) storing said errors (registration of errors) for said rest of said colors for processing further regions of said image see for example column 32 lines 43- 45; and b4) calculating a compensated intensity value for said area(compensation through deghosting; a method for improving quality of image mosaics see for example column 32 line 37), based on said uncompensated intensity value and errors which were calculated for said first color when processing other image regions see for example column 32 lines 54- 58.

As per claim 8 Szeliski teaches d) prior to b), filtering said image to produce an image with the same color scheme as said display and using said filtered image in said step b) see for example column 29 lines 18- 20.

As per claim 9 Szeliski teaches said output display has sub- pixel control see for example column 9 lines 21- 35.

As per Claims 11- 15 and 17- 23, these claims are similar in scope to claims 1- 9 and rejected under the same rational.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure; US PAP 2003/0128223, 5,278,949, and 6,384,839.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Rahmjoo whose telephone number is (703) 305-5658. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (703) 308-6829. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Mike Rahmjoo

August 28, 2003

Marthew C. Bella
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600